

Study Calendar February 2012

SMT359 Electromagnetism



Book/Chapter			DVD ACTIVITIES	ASSIGNMENT	
Study week	Start date	Book/Chapter		Number	*Cut-off date /recommended completion date
1	4 Feb	BOOK 1 An introduction to Maxwell's equations 1 Electric forces and fields		iCMA MATHS iCMA 51 Q1-2	
2	11 Feb	2 Gauss's law	Gauss's law (software)	iCMA MATHS	16 Feb
3	18 Feb	2 Gauss's law continued		iCMA 51 Q3-5	TMA 01 Q1
4	25 Feb	3 Magnetic forces and fields	No magnetic monopole law (software)	TMA 01 Q2	
5	3 Mar	3 Magnetic forces and fields continued	Assignment warm-up I (video)	iCMA 51 Q6-8	
6	10 Mar	4 Ampere's law	Ampere's law (software)	iCMA 51	15 Mar
7	17 Mar	4 Ampere's law continued		iCMA 52 Q1	TMA 01 Q3
8	24 Mar	Consolidation	Assignment warm-up II (video)		
9	31 Mar	5 Electrostatic potential		TMA 01	5 Apr
10	7 Apr	5 Electrostatic potential continued		iCMA 52 Q2-5	
11	14 Apr	6 Electromagnetic induction	Faraday's law (software)	iCMA 52 Q6-7	TMA 02 Q1
12	21 Apr	7 Maxwell's triumph	Ampere-Maxwell law (software)	iCMA 52 Q8	
13	28 Apr	BOOK 2 Electromagnetic fields 1 Foundations of electromagnetism		iCMA 52	3 May
14	5 May	2 Electric fields in materials	Dielectrics (video)	iCMA 53 Q1-3	
15	12 May	3 Magnetic fields in materials	A grip of iron (video)	iCMA 53 Q4-6	TMA 02 Q2
16	19 May	4 Electrostatic field calculations		iCMA 53 Q7-8	TMA 02 Q3
17	26 May	Consolidation		iCMA 53	31 May
18	2 Jun	5 Magnetostatic field calculations		iCMA 54 Q1-2	TMA 03 Q1
19	9 Jun	6 Forces on charged particles	Bending magnets (video)	iCMA 54 Q3-4	TMA 03 Q2
20	16 Jun	7 Resistance and inductance		iCMA 54 Q5-7	TMA 03 Q3
21	23 Jun	8 Electromagnetic energy		iCMA 54 Q8	
22	30 Jun	9 Superconductivity		TMA 03 Q4	iCMA 54
23	7 Jul	10 Special relativity and electromagnetism		iCMA 55 Q1	5 Jul
24	14 Jul	11 Revision and consolidation		iCMA 55 Q2	
25	21 Jul	Consolidation		TMA 03	26 Jul
26	28 Jul	BOOK 3 Electromagnetic waves 1 Electromagnetic waves in empty space	Hertz: putting Maxwell to the test (video) Plane polarized waves (video)	iCMA 55 Q3-5	
27	4 Aug	2 Generation of electromagnetic waves		iCMA 55 Q6-8	TMA 04 Q1
28	11 Aug	3 Dielectrics: reflection and refraction		iCMA 56 Q1-3	iCMA 55
29	18 Aug	4 Dielectrics: dispersion and absorption		iCMA 56 Q4-5	16 Aug
30	25 Aug	5 Conductors: absorption and reflection	Absorption of electromagnetic waves (video)	iCMA 56 Q6-7	TMA 04 Q3
31	1 Sep	Consolidation			
32	8 Sep	6 Plasmas		iCMA 56 Q8	TMA 04
33	15 Sep	7 Seeing clearly			iCMA 56
34	22 Sep		iCMA revision		20 Sep
35	29 Sep			<i>Final cut-off date for iCMA 51-56</i>	iCMA 51-56
					8 Oct

* Cut-off dates (TMAs)/ Recommended completion dates (iCMAs)